



## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Robin Robinson et al.	)	
Application No. 10/617,569	) Group Art Unit: 1648	
Filed: <b>July 11, 2003</b>	Examiner: Hill, Myron C	7
For: Functional Influenza Virus Like Particles (VLPs)	)	

U.S. Patent and Trademark Office Customer Service Window, Mail Stop Amendment Randolph Building 401 Dulany Street Alexandria, VA 22314

## SECOND INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. 1.97(b)

Pursuant to 37 C.F.R. 1.56 and 1.97(b), Applicants bring to the attention of the Examiner the documents listed on the attached PTO-1449 forms. Pursuant to the rules pertaining to applications filed after June 30, 2003, copies of the U.S. references are not enclosed. Copies of the other listed documents are attached. This Information Disclosure Statement is being filed, to the best of the undersigned's knowledge, before the mailing date of a first Office Action on the merits for the above-referenced application. Accordingly, Applicants do not believe that a fee is due with the filing of this paper.

Applicants respectfully request that the Examiner consider the listed documents and evidence that consideration by making appropriate notations on the attached form. This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute prior art. If the Examiner applies any one of the documents as prior art against any claim in the application, and Applicants determine that the cited document does not constitute prior art under United States law, Applicants reserve the right to present to the office the relevant facts and law regarding the appropriate status of such document.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Except for issue fees payable under 37 C.F.R. 1.18, the Commissioner is hereby authorized by this paper to charge any additional fees during the entire pendency of this application including fees due under 37 C.F.R. 1.16 and 1.17 which may be required, including any required extension of time fees, or credit any overpayment to Deposit Account No. 50-0310. This paragraph is intended to be a constructive petition for extension of time in accordance with 37 C.F.R. 1.136(a)(3).

Dated: November 8, 2005 Morgan, Lewis & Bockius LLP Customer No. 09629 1111 Pennsylvania Avenue, N.W. Washington, D.C. 20004 202-739-3000 Respectfully submitted

Morgan, Lewis & Bockius LLP

Melisal To

Edward I. Amaya
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## LIST OF REFERENCES CITED BY APPLICANT (Use several sheets if necessary)

ATTY DOCKET NO. APPLICATION NO 064528-5003-US 10/617,569

APPLICANT

Robin Robinson et al.

GROUP FILING DATE July 11, 2003

1648

## **U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A01	6,649,372	11/18/03	Palese et al.	435	69.1	
	A02	2003/0035814	2/20/03	Kawaoka et al.	424	208.1	
	A03						
	A04						
	A05						
	A06						
	A07						
	A08						
	A09						

		FOREIG	N PATENT DOCUMENTS				
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSL	ATION
 						YES	NO
B01	WO 96/37624	11/28/96	WIPO (in English)				
B02							
 B03							
B04							1
 B05							<u> </u>

EXAMINER .	DATE CONSIDERED	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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		064528-5003-US	10/617,569	
LIST OF REF	ERENCES CITED BY APPLICANT	APPLICANT		
	(Use several sheets if necessary)	Robin Robinson et al.		
		FILING DATE	GROUP	
c		July 11, 2003	1648	
	OTHER REFERENCES (Including Author, I			
C01				
	of M1 Protein", <u>Journal of Virology</u> , September 2000, V Bullido, Rosario et al., "Several Protein Regions Contrib	ol. 74, No. 18, pp. 8709-8719		
C02	the Influenza A Virus Nucleoprotein", Journal of Genera			
C03				
C04	Elster, Christine e tal., "Influenza Virus M1 Protein Bind of General Virology, 1997, 78, pp. 1589-1956	s to RNA Through Its Nuclea	r Localization Signal", Journal	
C05	Fodor, Ervin et al., "Rescue of Influenza A Virus from R No. 11, pp. 9679-9682	Fodor, Ervin et al., "Rescue of Influenza A Virus from Recombinant DNA", Journal of Virology, Nov. 1999, Vol. 73,		
C06	Gómez-Puertas, Paulino et al., "Efficient Formation of Ir	Gómez-Puertas, Paulino et al., "Efficient Formation of Influenza Virus-Like Particles: Dependence on the Expression Levels of Viral Proteins", Journal of General Virology, 1999, 80, pp. 1635-1645		
C07	Gómez-Puertas, Paulino et al., "Influenza Virus Matrix Protein is the Major Driving Force in Virus Budding", <u>Journal of Virology</u> , Dec. 2000, Vol. 74, No. 24, pp. 11538-11547			
C08	Hoffmann, Erich et al., "A DNA Transfection System for Generation of Influenza A Virus from Eight Plasmids", PNAS, May 23, 2000, Vol. 97, No. 11, pp. 6108-6113			
C09				
C10	7.01			
C11	Lyles, Douglas S. et al. "Subunit Interactions of Vesicular Stomatitis Virus Envelope Clycoprotein Stablilied by Binding to Viral Matrix Protein", Journal of Virology, January 1992, Vol. 66, No. 1, pp. 349-358			
C12	Mena, Ignacio et al., "Rescue of a Synthetic Chloramphenicol Acetyltransferase RNA into Influenza Virus-Like Particles Obtained from Recombinant Plasmids", Journal of Virology, August 1996, Vol. 70, No. 8, pp. 5016-5024			
C13	Neumann, Gabriele et al., "Generation of Influenza A Viruses Entirely from Cloned cDNAs", Proc. Natl. Acad. Sci. USA, August 1999, Vol. 96, pp. 935-9350			
C14		ticles Lacking Hemagglutinin 994-1001	on the Viral Envelope",	
C15	71 11 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	etics System for Influenza A	Virus", <u>Journal of Virology</u> ,	
C16	St. Angelo, Carol et al., "Two of the Three Influenza Viral Polymerase Proteins Expressed by Using Baculovirus Vectors Form a Complex in Insect Cells", Journal of Virology, February 1987, Vol. 61, No. 2, pp. 361-365			
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LIST OF REFERENCES CITED BY APPLICAN (Use several sheets if necessary)	Replicant Replin Robinson et al.	
(6, /	LING DATE July 11, 2003	GROUP 1648

	OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)
C17	Tobita, Kiyotake et al., "Spontaneous Excretion of Virus from MDCK Cells Persistently Infected with Influenza Virus A/PR/8/34", Journal of General Virology, 1997, 78, pp. 563-566
C18	Yasuda, Jiro et al., "Growth Control of Influenza A Virus by M1 Protein: Analysis of Transfectant Viruses Carrying the Chimeric M Gene", Journal of Virology, Dec. 1994, Vol. 68, No. 12, pp. 8141-8146
C19	Ye, Zhiping et al., "Nucleus-Targeting Domain of the Matrix Protein (M <sub>1</sub> ) of Influenza Virus", <u>Journal of Virology</u> , March 1995, Vol. 69, No. 3, pp. 1964-1970
C20	Zhao, Hongxing et al., "The M1 and NP Proteins of Influenza A Virus Form Homo- but not Heterooligomeric Complexes when Coexpressed in BHK-21 Cells", Journal of General Virology, 1998, 79, pp. 2435-2446
 C21	
C22	
 C23	
C24	
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